		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSO	R Information 57
PART	A G	GENERAL REPORTING INFORMATION	25
1.01	Thi	his Comprehensive Assessment Information Rule (CAIR) Report	ing Form has been
CBI	con	ompleted in response to the <u>Federal Register</u> Notice of	mo. day j year
	a.	. If a Chemical Abstracts Service Number (CAS No.) is prov	rided in the <u>Federal</u>
		Register, list the CAS No $[0]$	61 <u>7171</u> 1-1 <u>6</u> 121-1 <u>5</u> 1
	ь.	. If a chemical substance CAS No. is not provided in the Feither (i) the chemical name, (ii) the mixture name, or the chemical substance as provided in the Federal Regist	(111) the trade name of
		(i) Chemical name as listed in the rule	
		(ii) Name of mixture as listed in the rule	
		(iii) Trade name as listed in the rule	
	c.	If a chemical category is provided in the Federal Regist the category as listed in the rule, the chemical substar reporting on which falls under the listed category, and substance you are reporting on which falls under the lis	nce CAS No. you are the chemical name of the
		Name of category as listed in the rule	
		CAS No. of chemical substance [_]_]	
		Name of chemical substance	
1.02	Ide	dentify your reporting status under CAIR by circling the a	opropriate response(s).
CBI	Mar	Manufacturer	
[_]	Imp	Importer	2
	Pro	Processor	3
	X/1	K/P manufacturer reporting for customer who is a processor	4
	X/!	K/P processor reporting for customer who is a processor	
			<b>EPA-OTS</b> 00667954.
		90-8	9000599
[]	Mari	ark (X) this box if you attach a continuation sheet.	

1.03	Does the substance you are reporting on have an " $x/p$ " designation associated with it in the above-listed Federal Register Notice?
CBI	Yes [_] Go to question 1.04
[_]	No
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
CBI	Yes 1
[_]	No 2
	b. Check the appropriate box below:
	$\left[\begin{array}{c} - \\ - \end{array} ight]$ You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	[] You have chosen to report for your customers
	[_] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
CBI	Trade name PLiogRip 6000
[_]	Is the trade name product a mixture? Circle the appropriate response.
	Yes
	No
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
CBI	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."
· *	GREGORY M. WILLAMAN SIGNATURE DATE SIGNED  ADMINISTRATIVE ASSISTANT (616) 794 - 0700  TITLE TELEPHONE NO.
	ADMINISTRATIVE ASSISTANT (616) 794 - 0700 TITLE TITLE TELEPHONE NO.
[_]	Mark (X) this box if you attach a continuation sheet.

[_]	are required to complete sec now required but not previou submissions along with your "I hereby certify that, to t	he best of my knowledge and belief, included in this CAIR Reporting For ers and is current, accurate, and com	y previous  all required  m has been submitted
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> [_]	certify that the following s those confidentiality claims  "My company has taken measur and it will continue to take	res to protect the confidentiality of these measures; the information is ole by other persons (other than gove or than discovery based on a showing	the information, not, and has not ernment bodies) by
	a judicial or quasi-judicial	available elsewhere; and disclosure to my company's ed	of the information
	a judicial or quasi-judicial	available elsewhere; and disclosure	of the information

1.09	Facility Identification
CBI	Name [7]0]5]7]0]7]1]1100010]5]7]7]12]0]1]10]1]1]1]1]1]1]1]1]1]1]1]1]1]1]1
	<u>                                    </u>
	[ <u>M</u> ] <u>工</u> ] ( <u>4</u> ) <u>图</u> ] <u>0</u> ] <u>9</u> ][ <u>]</u> ] <u>]</u> ]
	Dun & Bradstreet Number $\dots [\underline{\overline{o}}]\underline{\overline{o}}]-[\underline{\overline{y}}]\underline{\overline{z}}]\underline{\overline{f}}]-[\underline{\underline{g}}]\underline{\overline{f}}]\underline{\overline{f}}]\underline{\overline{f}}]$
	EPA ID Number $[\underline{9}]\underline{8}]\underline{0}\underline{0}\underline{8}\underline{7}\underline{5}\underline{5}\underline{5}\underline{5}\underline{5}\underline{5}\underline{5}\underline{5}\underline{5}5$
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [2]0]6]8]0]7]_]11210]0]0]5]7[2]2]6]5]]]]]]]]]
[_]	Address [Z] \[ \]
	[[][][][][][][][][][][][][][][][][][][
	[ <u>P]</u> ] [ <u>]</u> ] <u>[]</u> ][]]] State
	Dun & Bradstreet Number $$
	Employer ID Number
	· ·
	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
CBI	Name $[Z]_{\mathcal{O}}   \underline{\mathcal{O}}   \underline{\mathcal{O}$
[_]	Address [Z] <u>I]</u> <u>V</u> ] <u>E</u> ] <u>R</u> ]_  <u>R</u> ] <u>O</u> ] <u>A</u> ] <u>O</u> ]_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
	[ <u>▽]론]곳[⊙]巡[曆]</u> ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	[ <u>7</u> ] <u>7</u> ] [ <u>7</u> ] <u>7</u> ][ <u>1</u> ]_]_]
	Dun & Bradstreet Number $$
1.12	Technical Contact
CBI	Name [G]Z]E]G]O]R]Y]_]M]_]W]I]L]L]A]M]A]M]]]]]]]]]]
[_]	Title [A] DIMIEINIEISITICIAI DIEINIEISITIAI DI DINIEISITIAI DINIEISITIAI DI DINIEISITIAI DI
	Address [5]0]0]   M A P I   E   S   T   E   E   T   T   T   T   T   T   T
	(B) [] [] [] [] [] [] [] [] [] [] [] [] []
	[ <u>M]</u> <u>了</u> ] ( <u>女]</u> <u>¥]</u> <u>¥]</u> <u>3</u> ] <u>o</u> ] <u>o</u> ][ <u>]</u> ]_]_]
	Telephone Number $[\underline{b}]\underline{J}\underline{G}\underline{G}\underline{G}\underline{G}\underline{G}\underline{G}\underline{G}\underline{G}\underline{G}G$
1.13	This reporting year is from $[\begin{tabular}{c c} \hline O & \hline$
	•

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [j]]]_]_]_]_]_]_]_]_]_]_]_]_]_]_
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]]-[_]]-[]]]]]]]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	· (_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
	[_]_] [_]_]-[_]_][_]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.
at a grant and the	

C	Classification	uantity (k
-	,	
١	Manufactured	NA
1	mported	1125
F	Processed (include quantity repackaged)	NIA
C	of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	-025
	For on-site use or processing	12
	For direct commercial distribution (including export)	N/1
	In storage at the end of the reporting year	,
(	of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	NA
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	· · · · · ·
	Processed as an article component (article producer)	, , , , , , , , , , , , , , , , , , ,
	Repackaged (including export)	/ ,
	In storage at the end of the reporting year	· / .
	·	•

Component Name	Supplier Name	Average % Composition by Weig (specify precision
a Oilson AVAIT		e.g., 45% ± 0.5
'e /////aocu <i>mwill</i> e	ASHLAND Chemical Co	15 toll
e DiisocyanaTE	Ashlaro chemical Co	30 ± 0.1
AND ATTE Polymen		50 I -01
enephenylede ANATE OLIGOREA	Ashano Chencal Co	5 ± .01
	•	Total 100
		•
		•
	ANATE Polymen enephenylese ANATE OLIGOREN	ANATE Polymen Ashlynis Jenical Co

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manusor processed during the 3 corporate fiscal years preceding the repodescending order.	factured, imp orting year i	orted, n
CBI			
[_]	Year ending	[ <u>a]6</u> ] [ Mo.	了] Year
	Quantity manufactured		kg
	Quantity imported	. 195	kg
	Quantity processed		kg
	Year ending	[ <u>a] 6</u> ] [	別 <mark>し</mark> Year
	Quantity manufactured	0	kg
	Quantity imported	,370	kg
	Quantity processed	0	kg
	Year ending	[ <u>مَالَ</u> ] [ Mo.	왕] <u>중</u> ] Year
	Quantity manufactured	0	kg
	Quantity imported	,240	kg
	Quantity processed	0	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
[_]	Continuous process		(1
	Semicontinuous process		2
	Batch process		3
	•	·	

2.06 CBI	Specify the manner in appropriate process ty	which you processed the pes.	ne listed substance.	Circle all	
[_]	Continuous process		· · · · · · · · · · · · · · · · · · ·		(1
	Semicontinuous process				2
	Batch process				3
2.07 CBI	State your facility's substance. (If you ar question.)	name-plate capacity f e a batch manufacture	or manufacturing or pr r or batch processor,	rocessing the l do not answer	listed this
[_]	Manufacturing capacity	·		NA	_ kg/yr
	Processing capacity .				_ kg/yr
2.08 CBI	If you intend to incremanufactured, imported year, estimate the incovolume.	I or processed at any	time after your curre	ent corporate.	fiscal tion
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processi Quantity	
	Amount of increase	N/3		NA	
	Amount of decrease	Nja	N/A.	- N/A	

2.09	listed substance	argest volume manufacturing or processing process, specify the number of days you manufactured of the reporting year. Also specify the average stype was operated. (If only one or two opera	number of h	ours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed	240	_8
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 <u>CBI</u> [_]	State the maxim substance that chemical.	um daily inventory and average monthly inventor was stored on-site during the reporting year in	ry of the li the form o	sted f a bulk
	Maximum daily i	nventory		050 kg
	Average monthly	inventory	•	05 <b>0</b> kg
				·
		`		
[-]	Mark (X) this b	oox if you attach a continuation sheet.		

N/A		

<u>CBI</u>	the quantity of listed total volume of listed quantity of listed subslisted under column b., the instructions for fu	substance used duri stance used captivel , and the types of e	ng t y on nd-u	he reporting year -site as a percen sers for each pro	tage of the value duct type. (Refer to
	Product Types <sup>1</sup>	b. % of Quantity Manufactured, Imported, or Processed	 	c. % of Quantity Used Captively On-Site	d.  Type of End-Users <sup>2</sup>
	**Ise the following code  A = Solvent  B = Synthetic reactant  C = Catalyst/Initiator  Sensitizer  D = Inhibitor/Stabiliz  Antioxidant  E = Analytical reagent  F = Chelator/Coagulant  G = Cleanser/Detergent  H = Lubricant/Friction  agent  I = Surfactant/Emulsit  J = Flame retardant  K = Coating/Binder/Add	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear	L = N = N = N = N = N = N = N = N = N =	<ul> <li>Moldable/Castable</li> <li>Plasticizer</li> <li>Dye/Pigment/Colo</li> <li>Photographic/Repand additives</li> <li>Electrodeposition</li> <li>Fuel and fuel additives</li> <li>Fragrance/Flavor</li> <li>Pollution control</li> <li>Functional fluid</li> <li>Metal alloy and</li> <li>Rheological modi</li> </ul>	als and additives chemicals locals chemicals locals and additives additives
	<sup>2</sup> Use the following code I = Industrial CM = Commercial	CS = Cons	umeı		·

2.13 <u>CBI</u> [_]	Expected Product Types Ide import, or process using the corporate fiscal year. For e import, or process for each u substance used during the repused captively on-site as a p types of end-users for each p explanation and an example.)	listed substa ach use, spec se as a perce orting year. ercentage of	nce ify ntag Als the	at any time after the quantity you e of the total vo o list the quanti value listed unde	your current expect to manufacture, lume of listed ty of listed substance r column b., and the
	a.	b.		c.	d.
	Ma . I	of Quantity nufactured, mported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
	<pre>"Use the following codes to d A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accel     Sensitizer D = Inhibitor/Stabilizer/Sca</pre>	erator/	L = M = N = O =	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives	e/Rubber and additives rant/Ink and additives rographic chemical
	Antioxidant  E = Analytical reagent  F = Chelator/Coagulant/Seque  G = Cleanser/Detergent/Degre  H = Lubricant/Friction modif  agent  I = Surfactant/Emulsifier  J = Flame retardant  K = Coating/Binder/Adhesive	aser ier/Antiwear	Q = R = S = T = U = V = W =	Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi	als and additives chemicals l chemicals s and additives additives
	<sup>2</sup> Use the following codes to d	esignate the	type	of end-users:	
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons	umer		
4	Mark (X) this box if you atta				

	a.	<b>b.</b>	c. Average %	d.
_	Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Composition of Listed Substance in Final Product	Type of End-Users
	NJA	· · · · · · · · · · · · · · · · · · ·		
-				
_				
 1		codes to designate pro	duat types	
2	A = Solvent B = Synthetic react C = Catalyst/Initia	tant ator/Accelerator/ ilizer/Scavenger/ gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier t /Adhesive and additive codes to designate the F2 = Cry F3 = Gra F4 = Oth G = Gel	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modifies X = Other (specify) e final product's physical restabline solid finules finer (specify)	rant/Ink and addrographic chemicals and additives chemicals chemicals and additives additives additives additives additives are form:
		codes to designate the	type or end-users.	

2.15 CBI	Circl liste	e all applicable modes of transportation used to deliver bulk shipments of ted substance to off-site customers.	the						
[-]	Truck		. 1						
·—·		ar							
		Barge, Vessel							
		Pipeline 4							
		2							
		(specify)							
2.16	Custo	ower Use Estimate the quantity of the listed substance used by your custo	mers						
<u>CBI</u>	or pr	repared by your customers during the reporting year for use under each categories and use listed (i-iv).	ory						
[_]	Categ	gory of End Use							
	i.	Industrial Products							
		Chemical or mixture	kg/yr						
		Article	kg/yr						
	ii.	Commercial Products							
		Chemical or mixture	kg/yr						
		Article	kg/yr						
	iii.	Consumer Products							
		Chemical or mixture	kg/yı						
		Article	kg/yı						
	iv.	Other							
		Distribution (excluding export)	kg/yı						
		Export							
		Quantity of substance consumed as reactant							
		Unknown customer uses							
		,							
[ ]	Mark	(X) this box if you attach a continuation sheet.							

# SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 CBI	Specify the quantity purchased and the average price properties for each major source of supply listed. Product trades the average price is the market value of the product trades substance.	es are treateu a	S purchases.
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	N/A	_ N/A
	The listed substance was transferred from a different company site.	N/A	NA
	The listed substance was purchased directly from a manufacturer or importer.	.125	.000037
	The listed substance was purchased from a distributor or repackager.	NIA	N/A
	The listed substance was purchased from a mixture producer.	NJA	NA
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the lis	ted substance to
[_]	Truck	•••••••	
	Railcar		
	Barge, Vessel		
	Pipeline		
	Plane		
	Other (specify)		

)3 - -	a.	Circle all applicable containers used to transport the listed substance to you facility.	
_}		Bags	1
		Boxes	
		Free standing tank cylinders	3
		Tank rail cars	
		Hopper cars	
		Tank trucks	6
		Hopper trucks	7
		Drums	
		Pipeline	9
		Other (specify) Syallow Pails	(10
	b.	If the listed substance is transported in pressurized tank cylinders, tank racars, or tank trucks, state the pressure of the tanks.	ail
			mmHg
		Tank cylinders	
		Tank cylinders  Tank rail cars	mmHg
			Ü
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg
		Tank rail cars	mmHg

3.04 BI	Cala -introduction nome	of its supplier(s) ( ion by weight of the	or of a mixture, list the or manufacturer(s), an est listed substance in the management.	THIOTE OF THE
]	Trade Name PLing Rip 6000	Supplier or Manufacturer Ashlan Chevical C	Average % Composition by Weight (specify ± % precision)  /5 T.0/	Amount Processed (kg/yr)
•	-			
		_		
			•	
			•	·

3.05 BI	State the quantity of the reporting year in the form the percent composition, by	stance.	
***************************************		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision</pre>
	Class I chemical	w ja	
	Class II chemical	N/A	
	Polymer	<u> </u>	
			•

	SECT	ION 4 PHYSICAL/CHEMIC	AL PROPERTIES				
Gener	al Instructions:						
4 tha	u are reporting on a míixt t are inappropriate to mi	xtures by stating NA	mixture.				
<b></b>	uestions 4.06-4.15, if yo e that addresses the info mile in lieu of answering	irmation requested. You	u may submit a copy or	el, MSDS, or other reasonable			
PART	A PHYSICAL/CHEMICAL DATA	A SUMMARY					
4.01 CBI	Specify the percent purity for the three major 1 technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance.						
[_]	·	Manufacture	Import	Process			
	Technical grade #1	% purity	% purity	% purity			
	Technical grade #2	% purity	% purity	,% purity			
	Technical grade #3	% purity	% purity	% purity			
	<sup>1</sup> Major = Greatest quant	ity of listed substanc	e manufactured, import	ed or processed.			
4.02	Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response.	y formulation contains ped and an MSDS develo her at least one MSDS	oped by a different sou has been submitted by	rce, submit your circling the			
	Yes						
	No						
			but a diff	r			
	Indicate whether the MS						

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.

MATERIAL SAFETY

DATA SHEET

DIVISION OF ASHILAND OIL, INC.

P. O. BOX 2219, COLUMBUS, URIO 43216 • (G14) 889 3333

24-HOUR EMERGENCY TELEPHONE (606) 324-1133

#### Ashland, Manage of the same of the country of

#### DEFINITIONS

THIS DEFINITION PAGE IS INTENDED FOR USE WITH MATERIAL SAFETY DATA SHEETS SUPPLIED BY ASHLAND OIL, INC. AND ITS DIVISIONS. RECIPIENTS OF THESE DATA SEETS SHOULD CONSULT THE OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910), PARTICULARLY SUBPART GOOD COUPATIONAL HEALTH AND ENVIRONMENTAL CONTROL, AND SUBPART I - PERSONAL PROTECTIVE EQUIPMENT, FOR GENERAL GUIDANCE ON CONTROL OF POTENTIAL OCCUPATIONAL HEALTH AND SAFETY HAZARDS.

## PRODUCT IDENTIFICATION

CHEMICAL FAMILY GENERAL OF GENERIC ID: CS OR PRODUCT DESCRIPTION.

DOT HAZARD CLASSIFICATION: PRODUCT MEETS DOT CRITERIA FOR HAZARDS LISTED.

## SECTION TI

COMPONENTS ARE LISTED IN THIS SECTION IF THEY PRESENT A PHYSICAL OR HEALTH HAZARD AND ARE PRESENT AT OR ALOVE 12 IN THE MIXTURE. COMPONENTS IDENTIFIED AS CAR-CINOGENS BY NTP, TARC AND OCHA ARE LISTED AND FOOTNOTED IF THEY ARE PRESENT AT OR ABOVE 0.1% IN THE MIXTURE. OTHER COM-PONENTS MAY BE LISTED IF DEEMED APPRO-PRIATE PRIATE.

IDENTITIES OF COMPONENTS LISTED GENER-ICALLY ARE DECLARED TRADE SECRET.

EXPOSURE RECOMMENDATIONS ARE FOR COMPONENTS. OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) AND AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUES (TLVS) APPEAR ON THE LINE WITH THE COMPONENT IDENTIFICATION. OTHER RECOMMENDATIONS APPEAR AS FOOTNOTES.

### SECTION III PHYSICAL DATA

BOILING POINT: OF PRODUCT IF KNOWN.
THE LOWEST VALUE OF THE COMPONENTS
IS LISTED FOR MIXTURES.

OR PRESSURE: OF PRODUCT IF KNOWN.
THE HIGHEST VALUE OF THE COMPONENTS
IS LISTED FOR MIXTURES.

SPECIFIC VAPOR DENSITY: COMPARED TO AIR 11. IF SPECIFIC VAPOR DENSITY OF PRODUCT IS NOT KNOWN, THE VALUE IS EXPRESSED AS LIGHTER OR HEAVIER THAN

SPECIFIC GRAVITY: COMPARED TO WATER # 1,
IF SPECIFIC GRAVITY OF PRODUCT IS NOT
KNOWN, THE VALUE IS EXPRESSED AS LESS
THAN OR GREATER THAN WATER.

IF APPLICABLE. PH:

PERCENT VOLATILES: PERCENTAGE OF MATER-IAL WITH INITIAL BOILING POINT BELOW 425 DEGREES FAHRENHEIT.

EVAPORATION RATE: INDICATED AS FASTER OR SLOWER THAN ETHYL ETHER, UNLESS OTHERWISE STATED.

## SECTION IV FIRE AND EXPLOSION INFORMATION

FLASH POINT: METHOD IDENTIFIED.

EXPLOSION LIMITS: FOR PRODUCT IF KNOWN.
THE LOWEST VALUE OF THE COMPONENTS
IS LISTED FOR MIXTURES.

HAZARDOUS DECOMPOSITION PRODUCTS: KNOWN OR EXPECTED HAZARDOUS PRODUCTS RESULTING FROM HEATING, BURNING, OR OTHER REACTIONS.

EXILOUISHING MEDIA: FOLLOWING NATIONAL FIRE PROTECTION ASSOCIATION CRITERIA.

#### SECTION IN (CONT.)

FIREFIGHIING PROCEDURES: MINIMUM EQUIPMENT TO PROTLET FIREFIGHTERS FROM TOMIC PRODUCTS OF VAPORIZATION, COMMUSION OR DECOMPOSITION IN FIRE SITUATIONS. OTHER FIREFIGHTING HAZARDS ONS. OTHER FIREF

EPECIAL FIRE AND EMELOSTON HAZARDS: STATES HA

NEPA CODET: HAZARD RATINGS ASSICNED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

## SECTION V. MEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: FOR PRODUCT.

THRESHOLD LIMIT VALUE: FOR PRODUCT.

EFFECTS OF ACUTE OVEREXPOSURE: POTEN-TIAL LOCAL AND SYSTEMIC EFFECTS DUE TO SINGLE OR SHORT TERM OVEREXPOSURE TO THE EYES AND SKIN OR THROUGH IN-HALATION OR INGESTION.

FCIS OF CHRONIC OVEREXPOSURE: FOTEN-TIAL LOCAL AND SYSTEMIC EFFECTS DUE TO REPEATED OR LONG TERM OVEREXPOSURE TO THE EYES AND SKIN OR THROUGH IN-HALATION OR INGESTION.

FIRST AID: PROCEDURES TO BE FOLLOWED WHEN DEALING WITH ACCIDENTAL OVER-EXPOSURES.

BASED ON PRO-PRIMARY ROUTE OF ENTRY: BAS PERTIES AND EXPECTED USE.

### SECTION VI REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID TO PREVENT HAZARDOUS POLYMERIZATION RESULTING IN A LARGE RELEASE OF ENERGY.

STABILITY: CONDITIONS TO AVOID TO PRE-VENT HAZARDOUS OR VIOLENT DECOMPOSI-TION.

INCOMPATIBILITY: MATERIALS AND CONDITIONS TO AVOID TO PREVENT HAZARDOUS REACTIONS.

# SECTION VII SPILL OR LEAK PROCEDURES

REASONABLE PRECAUTIONS TO BE TAKEN AND METHODS OF CONTAINMENT, CLEAN-UP AND DISPOSAL. CONSULT FEDERAL, STATE AND LOCAL REGULATIONS FOR ACCEPTED PROCEDURES AND ANY REPORTING OR NOTIFICATION REQUIREMENTS.

## SECTION VIII PROJECTIVE EQUIPMENT TO BE USED

PROTECTIVE EQUIPMENT WHICH MAY BE NEEDED WHEN HANDLING THE PRODUCT.

SECTION IX
SPECIAL PRECAULIONS OR OTHER COMMENTS

COVERS ANY RELEVANT POINTS NOT PREV-IOUSLY MENTIONED.

#### ADDITIONAL COMMENIS

CONTAINERS SHOULD BE EITHER RECONDITIONED BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS. SERIOUS ACCIDENTS HAVE RESULTED FROM THE MISUSE OF "EMPTIED" CONTAINERS (DRUMS, PAILS, ETC.). REFER TO SECTIONS IV AND IX.

#### NAMES AND ASSOCIATE OF THE PERSON OF THE PER DIVISION OF ASHLAND UIL, INC.

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#### MATERIAL SAFETY DATA SHEET

PAGE: 1

PLIOGRIP 6000 000081 THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD) PRODUCT NAME: PLIOGRIP 6000 05 86 012 9103639-370
DATA SHEET NO: 0171496-003
LATEST REVISION DATE: 10/85-85282
PRODUCT:
INVOICE: REQST
INVOICE DATE: 01/29/86 ROBROY IND - BELDING ATIN: GREG WILLAMAN BELDING, MI 48809 BELDING DIV. SECTION I-PRODUCT IDENTIFICATION GENERAL OR GENERIC ID: URETHANE PREPOLYMER HAZARD CLASSIFICATION: NOT APPLICABLE SECTION II-COMPONENTS PEL N (BY WT) INGREDIENT ( 1) ISOCYANATE POLYMER 45-50 ( 2) <sup>15</sup> 2 MG/M3 3 25-30 PPM - CEILING 0.02 0.02 10-15 TOLUENE DIISOCYANATE 0.02 PPM - CEILING METHYLENEPHENYLENE 5-10 0.02 ISOCYANATE OLIGOMER ( 1): PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL ( 2): AS RESPIRABLE DUST. PEL REPRESENTS A CONVERSION FROM MPPCF TO MG/CUM. SECTION III-PHYSICAL DATA REFINEMENT 406.00 ( 207.77 a 5.00 DEG F FOR COMPONENT (5-10 JEG C) BOILING POINT FOR COMPONENT( 10~15%) MMHG DEG F DEG C) 0.01 68.00 20.60 VAPOR PRESSURE a HEAVIER THAN AIR SPECIFIC VAPOR DENSITY 1.320 77.00 DEG F 25.00 DEG C) SPECIFIC GRAVITY 10-15X PERCENT VOLATILES SLOWER THAN ETHER EVAPORATION RATE SECTION IV-FIRE AND EXPLOSION INFORMATION 270.00 DEG F 132.22 DEG C) FLASH POINT(TOC (LOWEST VALUE OF COMPONENT) LOWER - .9% EXPLOSIVE LIMIT EXTINGUISHING MEDIA: REGULAR FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL MAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, NITROGEN COMPOUNDS, HYDROGEN CYANIDE, FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE AND FULL BODY PROTECTIVE CLOTHING WHEN FIGHTING FIRES. WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.
AL FIRE B EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY. SPECIAL SECTION V-HEALTH HAZARD DATA PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED FOR PRODUCT; SEE SECTION II AND SECTION

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EFFECTS OF ACUTE OVEREXPOSURE: FOR PRODUCT

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN - CAN CAUSE REDDENING, IRRI ION, DERMATITIS, POSSIBLE SENSITIZATION.

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### MATERIAL SAFETY DATA SHEET

000081	PLIOGRIP 6000	
	SECTION V-HEALTH HAZARD DATA (CONTINUED)	
BREATH C SWALLO	G - CAN CAUSE NASAL AND RESPIRATORY IRRITATION, TIGHTNESS OF CHEST, GIVEN CAUSE ALLERGIC SENSITIZATION, HEADACHE, AND SHORTNESS OF BREATH. CAN CAUSE ALLERGIC SENSITIZATION, HEADACHE, AND SHORTNESS OF BREATH. CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND STARRY	EON. HEA.
FIRST		
IF ON	IN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. IF IRRITATION OR P ELOPS, GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDER TAMANATED CLOTHING BEFORE RE-USE.	RASH
IF IN	ES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTENG UPPER AND LOWER LIUS	
IF SWA	OWED: DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE OAT. DILUTE BY GIVING WATER. GIVE MILK OF MAGNESIA. KEEP WARM, QUIET OAT TENTION IMMEDIATELY.	F
	HED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH ATR. IF TIGHTNESS OR GESTION IN CHEST DEVELOPS, GET MEDICAL ATTENTION.	
PRIMAR	ROUTE(S) OF ENTRY:	
ı	ALATION	
	N CONTACT	
EFFECT	OF CHRONIC OVEREXPOSURE: FOR PRODUCT	
PROLON	D INHALATION OF TALC DUST IN HIGH CONCENTRATIONS CAN CAUSE PULMONARY	
OVEREX	SURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE FOLLOWING EFFECTS IN HUMANS:, RESPIRATORY SENSITIZATION, SKIN SENSITIZ	
	SECTION VI-REACTIVITY DATA	
	US POLYMERIZATION: CAN OCCUR AVOID CONTACT WITH STRONG ALKALIES, ST NERAL ACIDS, AND WATER.	RONG
STABIL	TY: STABLE	MATER
	TIBILITY: AVOID CONTACT WITH:, STRONG ALKALIES., STRONG MINERAL ACIDS.,	
	SECTION VII-SPILL OR LEAK PROCEDURES	
	TO BELLED:	
	THE TABLE OF BARER VERMICULTIE. FLOOR ABSORBENT, OR OTHER	
		PEA
	PILL: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM A SPILL: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM A SPILL AT SOURCE, DIKE ARE SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED, STOP SPILL AT SOURCE, DIKE ARE ILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK, NEUTRALIZE SPILL ILL TO PREVENT SPREADING, PUMP LIQUID MAY BE TAKEN UP ON SAND, AOUEOUS SOLUTION OF AMMONIA. REMAINING LIQUID MAY BE TAKEN UP ON SAND, AV, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTALNERS.	
	ISPOSAL METHOD:	- <b>-</b>
	PILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME PORS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL DOCUMENT OF THE PROPERTY OF TH	EN
	PILL: DESTROY BY LIGUID INCINERATION IN ACCORDANCE WITH APPLICABLE GULATIONS. NTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH CAL, STATE AND FEDERAL REGULATIONS.	
	SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED	
RESPI	TORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A OSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MS SPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLICATIONS OF ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE POSURE.	OF HA

- VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST)
  VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(5).
- PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS:, NATURAL RUBBER, POLYVINYL ALCOHOL
- EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)
- OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

72-62-7920-01

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PAGE: 3 PLIOGRIP 6000 00081 SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

- CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.
- EXPOSURE TO AEROSOLS AND MISTS WHEN MATERIAL IS SPRAYED MAY PRESENT A GREATER RISK OF INJURY FROM COMPONENTS BECAUSE HIGHER CONCENTRATIONS ARE IN THE ATMOSPHERE THAN RESULT FROM VAPOR ALONE. PROVIDE ADEQUATE VENTILATION AND IF NECESSARY, USE RESPIRATORY PROTECTION.
- OVEREXPOSURE TO COMPONENTS HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS:, RESPIRATORY SENSITIZATION, SKIN SENSITIZATION, LUNG DAMAGE
- THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No ②

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Phy	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[\_\_] Mark (X) this box if you attach a continuation sheet.

4.05 <u>CBI</u> [_]	following percentage particles importing	Size If the lister activities, indicate the distribution of the bound of the bou	te for each ap he listed subs meter. Measur ivities at the	tance by time you ate and	activity ysical st u import	. Do nate and or beging sizes f	ot includ particle n to proc	e sizes for ess the cturing
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron		UK			UK	
		1 to <5 microns						
		5 to <10 microns						
	Powder	<1 micron		UK			UK	
		1 to <5 microns						
		5 to <10 microns	·					
	Fiber	<1 micron		UK			<u> VK</u>	
		1 to <5 microns						
		5 to <10 microns						
	Aerosol	<1 micron		UK			UK	
		1 to <5 microns						
		5 to <10 microns						
				,				

		SECTION 5 ENVIRONMENTAL	FATE	
PART	A R	ATE CONSTANTS AND TRANSFORMATION PRODUCTS		
5.01	Ind	icate the rate constants for the following tran	sformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	<u>UK</u> (1/M cm) at <u>UK</u>	nm
		Reaction quantum yield, 6	UK at UK	nm
		Direct photolysis rate constant, $k_p$ , at		
	b.	Oxidation constants at 25°C:		
		For <sup>1</sup> 0 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	UK	1/M hr
		For RO <sub>2</sub> (peroxy radical), k <sub>ox</sub>	9 1-	1/M hr
	c.	Five-day biochemical oxygen demand, BOD <sub>5</sub>	1 2 1-	mg/l
	d.	Biotransformation rate constant:		
	-	For bacterial transformation in water, $k_b \dots $	UK	1/hr
		Specify culture	. 3 km	
	e.	Hydrolysis rate constants:		
		For base-promoted process, k <sub>B</sub>	UK	1/M hr
		For acid-promoted process, k <sub>A</sub>	. )	1/M hr
		For neutral process, k <sub>N</sub>	1.	1/hr
	f.	Chemical reduction rate (specify conditions)	<b>.</b>	
	1.	Offenical reduction race (specify construction)		
	~	Other (such as spontaneous degradation)	υK	•
	g.	Other (such as spontaneous degradation,		•

[_]	Mark	(X)	this	box	if	you	attach	a	continuation	n sheet.	
-----	------	-----	------	-----	----	-----	--------	---	--------------	----------	--

PART	в Р	ARTITION COEFFICIENTS			4	
5.02	a.	Specify the half-life of t	he listed sub	stance in the follo	owing media	•
		Media		Half-life (spe	ecify units	)
		Groundwater		UK		
		Atmosphere		UK		
		Surface water		UK		
		Soil		UK		
	b.	Identify the listed substa life greater than 24 hours	nce's known t •	ransformation produ	ucts that h	ave a half-
		CAS No.	Name	Half-life (specify unit:	5)	Media
		A			in	
			-			
					•	
					•	
5.03	Spe	ecify the octanol-water part	ition coeffic	ient, K <sub>ow</sub>	UK	at 25°C
	Met	hod of calculation or deter	mination			
5.04	Spe	ecify the soil-water partiti	on coefficier	ıt, K <sub>a</sub>	UK	at 25°C
		l type				
5.05	Spe coe	ecify the organic carbon-watefficient, K <sub>oc</sub>	er partition		υĸ	at 25°C
5.06	Spe	ecify the Henry's Law Consta	int, H		uK_	atm-m³/mole
[_]	Maı	rk (X) this box if you attac	ch a continua	ion sheet.		

Bioconcentration Factor	of test used in deriving t	<u>Test<sup>1</sup></u>
UK		
<sup>1</sup> Use the following codes to des	signate the type of test:	
F = Flowthrough		
S = Static		
		•

		•		
[_]	Manhah	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)	
	Market	it is it is	411.0	
	Retail sales		- V/M	
	Distribution Wholesalers	<i>```/^</i>	<u> </u>	
	Distribution Retailers	NIA	<u> </u>	
	Intra-company transfer	<u> </u>	Ma	
	Repackagers	N_	/p	15
	Mixture producers	<u> </u>	MA	
	Article producers	<u> </u>	NA	
	Other chemical manufacturers	1/10		
	or processors		- M/M	
	Exporters	NA	NA	
	Other (specify)	/	7	
		NIA	NIA	
		MA	<u>Nfa</u>	
6.05 CBI	Substitutes List all known commer for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which	he cost of each substitu- economically and technological	te. A commercially ogically feasible to	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	
	for the listed substance and state t feasible substitute is one which is in your current operation, and which performance in its end uses.	he cost of each substitu- economically and technological	te. A commercially ogically feasible to uct with comparable	

6.06 CBI	State your average total and variable costs of manufacturing, processing the listed substance during the reporting year. (Fitness costs, refer to the instructions.)	importing, and or an explanation	on of
*	Average Total Costs		
	Manufacturing	NA	\$/kg
	Importing	,	\$/kg
	Processing	مرائد	\$/kg
	Average Variable Costs	·	
	Manufacturing	J I A	\$/kg
	Importing	/	 \$/kg
	Processing	~ //s	\$/ Kg
CBI () 6.08 CBI	Average purchase price		
[_]	Year ending	[_]_]	[]]   Year
	Company's total sales (\$)	NIM	
	Sales of listed substance (\$)	NIA	
	Mark (X) this box if you attach a continuation sheet.		

6.09	State your company's total sales and sales of the listed substance sold in bulk for
CBI	the corporate fiscal year preceding the reporting year. (Refer to the instructions for question 6.08 for the methodology used to answer this question.)
	Year ending
	Company's total sales (\$)
	Sales of listed substance (\$)
6.10 CBI	State your company's total sales and sales of the listed substance sold in bulk for the 2 corporate fiscal years preceding the reporting year in descending order. (Refer to the instructions for question 6.08 for the methodology used to answer this question.)
· <u> </u>	Year ending [_]_] [_]_ Mo. Year
	Company's total sales (\$)
	Sales of listed substance (\$)
	Year ending []_] []_ []
	Company's total sales (\$)
	Sales of listed substance (\$)
	Mark (X) this box if you attach a continuation sheet.

	SECTION	7 MANUFACTURING	NG AND PROCESSING INFORMATION  The response for each process block flow diagram  The response for each process block flow diagram  The response for each process type from which the  The response for each process type from which the  The response for each process block flow diagram showing the involving the listed substance.		
For q	ral Instructions: questions 7.04-7.06, produced in questions 7.01, mation is extracted.	vide a separate 7.02, and 7.03.	response for eac Identify the pro	h process block ocess type from	flow diagram which the
PART	A MANUFACTURING AND PR	OCESSING PROCESS	TYPE DESCRIPTION	h process block flow diagram ocess type from which the	
7.01 CBI	In accordance with the major (greatest volume	e instructions, p e) process type i	rovide a process nvolving the lis	block flow diag ted substance.	
	Process type	- N J A			

7.05	process block flo	cess stream identified in yow w diagram is provided for mo lete it separately for each	re than one process type	, photocopy thi
CBI [_]	Process type	NJA		
	Process Stream ID Code	Process Stream	Physical State <sup>1</sup>	Stream Flow (kg/yr)
		-		
<b></b>		ng codes to designate the phy	•	ocess stream:
	GU = Gas (uncond SO = Solid SY = Sludge or S AL = Aqueous lic OL = Organic lic	quid	are and pressure)	<b>e)</b>

].	Process type	NJA			
	a.	b. /	c.	d.	e.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	-				
	-				
				•	
 6	continued be				
•					
					• .

/ · · · · · · · · · · · · · · · · · · ·	nued)	ti	con	6 (	.0	7
---	-------	----	-----	-----	----	---

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration: (% or ppm)
1		
2		
		•
3		
<del></del>		
4		
		•
5		***
<sup>2</sup> Use the following code:	s to designate how the concentrat	ion was determined:
A = Analytical result E = Engineering judgeme	ent/calculation	
<sup>3</sup> Use the following code:	s to designate how the concentrati	ion was measured:
V = Volume W = Weight		
Manta (V) Abia ban if nan	attach a continuation sheet.	

8.01 <u>CBI</u>	In accordance wi which describes	the treatmen	t process used	de a residual f for residuals	reatment block identified in q	flow diagram uestion 7.01
[_]	Process type		NIA			
			/			
				•		•

8.05 CBI	diagram	(s). If a r	esidual trea	m identified i tment block fl estion and com ns for further	ow diagram is objete it sebal	cately for each	h process
[ ]	Process	type	• • •	NA			
· ,	a.	b.	с.	d.	е.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4</sup> ,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
8.05	continu	ed below			•		•

## 8.05 (continued) <sup>1</sup>Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = ReactiveE = EP toxicT = ToxicH = Acutely hazardous <sup>2</sup>Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene) 8.05 continued below

[\_] Mark (X) this box if you attach a continuation sheet.

8	. 1	0.	5	(	c	on	t	i	n	u	e	d	)
---	-----	----	---	---	---	----	---	---	---	---	---	---	---

<sup>3</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component.
Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Concentrations

	Additive		Components of		Concentrations
	Package Number		Additive Package	-	(% or ppm)
	1		N/A	-	
			. /		
				-	
				-	
	2				
				•	
	,				
	3			,	
				•	
	4				
				•	
	5				
	<sup>4</sup> Use the following	ng codes to o	designate how the concer	ntration wa	s determined:
	A = Analytical	result			
	E = Engineering	judgement/ca	alculation		
8.05	continued below		•		•
[_]	Mark (X) this bo	x if you att	ach a continuation shee	t.	
			56		
			·		

8.05 (continued	8.05	(continued)
-----------------	------	-------------

<sup>5</sup>Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (± ug/l)
_1		
2		
3		
4		
5		
6		

[\_\_] Mark (X) this box if you attach a continuation sheet.

CBI							•	
[_]	Process	type	<i>N</i>				£	~
	a.	ъ.	c.	d.	e.		f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code <sup>2</sup>	Residual Quantities (kg/yr)	Manageme of Residual On-Site Off	(%)	Off-Site Management (per kg)	Changes in Managemen Methods
		·						
	,							
								•
		<u>·</u>				•		
		-						
							And the second s	
			<u></u>					
					designate the		descriptions ement methods	

	your process b	√Cha	ustion amber ture (°C)	Loca Temp	tion of erature nitor	Reside In Com	ence Time bustion (seconds)			
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondary			
	1	NIA								
	2									
	3									
	Indicate by circl	e if Office of ing the app	of Solid Wast ropriate resp	e survey ha	as been submit	tted in lieu	of respons			
	Yes					• • • • • • • • • •				
	No						(			
.23	Complete the f	collowing ta	ble for the t	hree larges	st (by capacit	ty) incinera	tors that			
BI	Complete the fare used on-sitreatment block	te to burn	the residuals ram(s). Air Po	three larges identified	st (by capacion of the contract of the contrac	cess block of Type: Emission	r residual			
BI	are used on-si treatment bloo	te to burn	the residuals ram(s). Air Po	: identified	st (by capacion of the control of the capacion of the capaci	cess block of Type: Emission	r residual s of ns Data			
BI	are used on-si treatment bloo	te to burn	the residuals ram(s). Air Po	: identified	st (by capacion of the capaci	cess block of Type: Emission	r residual s of ns Data			
BI	are used on-sitreatment block  Incinerator  1	te to burn	the residuals ram(s). Air Po	: identified	st (by capacion of the capacio	cess block of Type: Emission	r residual s of ns Data			
BI	Incinerator  1 2 Indicate	te to burn ck flow diag	the residuals ram(s).  Air Po Control	ollution Device  te survey ha	st (by capacion of the second	Type: Emission Avai	r residual s of ns Data lable			
B.23 CBI []	Incinerator  1 2 Indicate by circ.	te to burn ck flow diag e if Office ling the app	Air Po Control  Of Solid Wast	ollution Device  te survey have		Type: Emission Avai	r residual s of ns Data lable of respons			
CBI	Incinerator  1 2 Indicate by circ. Yes	te to burn ck flow diag e if Office ling the app	Air Po Control  Of Solid Wast ropriate resp	ollution Device  te survey have	as been submi	Type: Emission Avai	s of ns Data lable  of respons			
BI	Incinerator  1 2 Indicate by circ. Yes	e if Office	Air Po Control  Of Solid Wass ropriate resp	ollution Device  te survey have bonse.	as been submi	Type: Emission Avai	s of ns Data lable  of respons			

## PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

<u>CBI</u>	Mark (X) the appropriate column to indicate whether your company maintain the following data elements for hourly and salaried workers. Specify for element the year in which you began maintaining records and the number of records for that data element are maintained. (Refer to the instructions explanation and an example.)	f years the
[_]	Data are Maintained for: Year in Which	Number of

<b></b> ,	explanation and an example.)				
J	Data Element	Data are Mai Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
	Date of hire	_×	X	1978	
	Age at hire	X	X	1978	
	Work history of individual before employment at your facility	X_	×	1978	
	Sex			1978	
	Race	X_			
	Job titles	X_		1978	
	Start date for each job title	X_		/978	
	End date for each job title	X_		1978	
	Work area industrial hygiene monitoring data	<u> </u>		1978	
	Personal employee monitoring data	<u>_X</u>		1978	
	Employee medical history			19.78	
	Employee smoking history	1/17	NIVS	1978	
	Accident history	<u> </u>			
	Retirement date			1978	
	Termination date			1978	
	Vital status of retirees			1978	
	Cause of death data			1978	

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

	<b>a.</b>	<b>b.</b> .	c.	d.	e.
	-		Yearly	Total	Tota
Activi	<u>ty</u>	Process Category	Quantity (kg)	Workers	Worker-H
	cture of the substance	Enclosed	$-\mathcal{N}/\mathcal{F}$	NIT	NA
		Controlled Release	N/17	NIN	NIM
		0pen	$\frac{N/t}{t}$	MI	MA
On-sit reacta	e use as	Enclosed	_UK	UK_	UK_
reacta		Controlled Release	UK	UK	_ UK
		0pen	UK	UK	JK
	e use as	Enclosed	N/,A	N/A	N/A
nonrea	ctant	Controlled Release		NIA	_N/A_
		0pen	N/A	NA	NA
	e preparation	Enclosed	NA	NA	NA
of pro	ducts	Controlled Release	~/14	No	_1/4
		0pen	N/A.	14/17	MA
			,	/	,

.03	Provide a descripti encompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
<u> 31</u>	115ted Substance.	,
_ <sub>]</sub>		
	Labor Category	Descriptive Job Title
	A	Foreman
	В .	C) C INS PECTOR
	С	Bossing operator
	D	Las Tech
	E	Engineering
	F	
	G	
	н	
	ı	
	J	
	v	
		•
	•	

.04	In accordance with the instindicate associated work ar	ructions, eas.	provide you	ir process	block flo	ow diagram(:	s) and
BI							
<u>_</u> 1	Process type /	NJA				-	
		/					
					•		
							•

may potentially come in contact with or be exposed to the listed substance. Add any additional areas not shown in the process block flow diagram in question 7.01 or 7.02. Photocopy this question and complete it separately for each process type.			
Description of Work Areas and Worker Activities	9.05 CBI	may potentially come	in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or
Description of Work Areas and Worker Activities	,—,	Process type	
1 BONDING AREA 2 3 4 5 6 7 8 9 10	r 1	Trocess type	
2 3 4 5 6 7 8 9 10		Work Area ID	Description of Work Areas and Worker Activities
3 4 5 6 7 8 9 10		1	BONDING AREA
4		2	
5 6 7 8 9 10		3	
6		4	
7 8 9 10		5	
7 8 9 10		. 6	
9 10			
9 10			·
[ Mark (X) this box if you attach a continuation sheet.		10	
[ Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			•
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
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Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
Mark (X) this box if you attach a continuation sheet.			
		Mark (X) this box if	you attach a continuation sheet.

<u>si</u>	come in cont	tact with or be	r facility that en exposed to the la for each process	isted substance.	Photocopy th	nis question		
_]	Process type	e <u>/</u>						
	Work area .	• • • • • • • • • • • • •						
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance <sup>1</sup>	Average Length of Exposure Per Day <sup>2</sup>	Number of Days per Year Exposed		
	A_		AIR	GU	<u> </u>	240		
			Air	GU	A	240		
	C	2	Aia	<u>GU</u>	E	240		
			AIR	<u>GU</u>	A	240		
	E.		AIR	GU	A	240		
	saltanian and an arrange and a second and a							
	and the state of t					www.charolary.idl. P. C. C.		
	<sup>1</sup> Use the following codes to designate the physical state of the listed substance at the point of exposure:							
	GC = Gas tempo GU = Gas tempo	(condensible at erature and pre- (uncondensible erature and pre-	ssure) at ambient ssure;	SY = Sludge or sl AL = Aqueous liqu OL = Organic liqu IL = Immiscible l	iid iid .iquid			
	SO = Soli	udes fumes, vap d	ors, etc.)	(specify pha 90% water, 1				
	<sup>2</sup> Use the fo	llowing codes to	o designate avera	ge length of expo	sure per day:	:		
	B = Greate exceed C = Greate	utes or less r than 15 minut ing 1 hour r than one hour ing 2 hours	es, but not , but not	D = Greater than exceeding 4 h E = Greater than exceeding 8 h F = Greater than	ours 4 hours, bút ours			

	Photocopy this quearea.	stion and complete it separately for	or each process type and work
		ak	
]	Process type	··	
	Work area		
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m <sup>3</sup> , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m <sup>3</sup> , other-specify
			•
		•	
		<u>.</u>	

8	If you monitor worke	r exposur	e to the lis	sted substai	nce, compl	lete the fo	llowing tab.
]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Recor
	Personal breathing zone					•	
	General work area (air)						
	Wipe samples	dH-2					····
	Adhesive patches						
	Blood samples						
	Urine samples						
	Respiratory samples						
	Allergy tests					<del></del>	
	Other (specify)						
	Other (specify)					•	4.79
	Other (specify)						
	<sup>1</sup> Use the following c	odes to d	lesignate wh	o takes the	monitori	ng samples:	
	A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	er	st				
				,			

]	Sample Type	Sampling and Analytical Methodology						
		water the second	to the stage of th					
.10	If you conduct persons specify the following	al and/or ambient information for	air monitoring fo each equipment typ	r the listed s e used.	ubstance,			
BI				Averaging				
_l	Equipment Type <sup>1</sup>	Detection Limit <sup>2</sup>	Manufacturer	Time (hr)	Model Numbe			
		•						
					1127-71			
	<sup>1</sup> Use the following coo	des to designate	personal air monite	oring equipmen	t types:			
	A = Passive dosimeter	_		0				
	B = Detector tube							
	C = Charcoal filtration tube with pump D = Other (specify)							
	Use the following codes to designate ambient air monitoring equipment types:							
	E = Stationary monitors located within work area							
	F = Stationary monitors located within facility							
	G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify)							
	I = Other (specify)							
	<sup>2</sup> Use the following codes to designate detection limit units:							
	A = ppm  B = Fibers/cubic cent	timeter (f/cc)						
	B = Fibers/cubic centimeter $(f/cc)$ C = Micrograms/cubic meter $(\mu/m^3)$							
	C = micrograms/cubic	meter (p/m/						

I		Frequency
_1	Test Description	(weekly, monthly, yearly, etc.)
	·	
		•
	•	

9.12	Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.							
CBI								
[_]	Process type							
	Work area			•				
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded			
	Ventilation:							
	Local exhaust		- to the second	and the second s	44000			
	General dilution	<u> </u>						
	Other (specify)							
	Vessel emission controls	· N ·						
	Mechanical loading or packaging equipment	<u></u>						
	Other (specify)							
		- 14 to 14 t		•	****			

Process type .	<u>P/A</u>	
Work area	, <b>/</b>	
	ipment or Process Modification	Reduction in Work Exposure Per Year
ира	ipment of frocess noutreactor	
		•

9.14 CBI	in each work area	in order to reduce or eliminat	pment that your workers wear or use e their exposure to the listed it separately for each process type
[ ]	Process type	•••	
		Equipment Types	Wear or Use (Y/N)
		Respirators	
		Safety goggles/glasses	West and the Section of the Section
		Face shields	
		Coveralls	
		Bib aprons	
		Chemical-resistant gloves	<u> </u>
		Other (specify)	
			•
		***	
			·

Respirator Type  ollowing codes to des	Average Usage Usage signate average	Fit Tested (Y/N)	Type of Fit Test <sup>2</sup>	Frequency of Fit Tests (per year)
Respirator Type  ollowing codes to des	Usage¹	Tested (Y/N)	Type of Fit Test <sup>2</sup>	Fit Tests
Type	Usage¹	Tested (Y/N)	Type of Fit Test	Fit Tests
	signate average	usage:		
	signate average	  usage:		
	signate average v	usage:		
y ly a year (specify) ollowing codes to des itative titative	signate the type	of fit tes	t: .	

	E WORK PRACTICES							
9.19 CBI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.							
[_]	Process type	All of the last of						
	Work area		• • • • • • • • • • • • • • • • • • • •	• •				
	TRAINING PROGRAM AUTHORIZE WORKER	ns s signs						
9.20	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area.  Process type							
	Process type							
	Process type							
	Process type  Work area  Housekeeping Tasks			•	More Than 4			
		Less Than		3-4 Times	More Than 4			
	Housekeeping Tasks	Less Than		3-4 Times	More Than 4			
	Housekeeping Tasks Sweeping	Less Than		3-4 Times				
	Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than		3-4 Times	More Than 4			
	Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than		3-4 Times	More Than 4			
	Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than		3-4 Times	More Than 4			

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No ②
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes 1
	No 2
	If yes, where are copies of the plan maintained? Foreman's OFFice
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier
	OSHA consultant 3
	Other (specify) 4
[ ]	Mark (X) this box if you attach a continuation sheet.

9.24	Who is responsible for safety and health training at your facility? Circle the appropriate response.							
	Plant safety specialist							
	Insurance carrier							
	OSHA consultant 3							
	Other (specify) Foreman							
9.25	Who is responsible for the medical program at your facility? Circle the appropriate response.							
	Plant physician 1							
	Consulting physician 2							
	Plant nurse							
	Consulting nurse							
	Other (specify)							

## SECTION 10 ENVIRONMENTAL RELEASE

## General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area
	Residential area
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)

10.02	Specify the exact location of your is located) in terms of latitude (UTM) coordinates.	our facility (from cen e and longitude or Uni	versal Transvers	e process unit
	Latitude		<u>43°6</u>	, 30
	Longitude		_ 85 ° _ /	14 ' 0
	UTM coordinates Zor	ne, North	ning, Ea	asting
10.03	If you monitor meteorological co	onditions in the vicin	aity of your faci	ility, provide
	Average annual precipitation			inches/yea
	Predominant wind direction			
10.04	Indicate the depth to groundwate	er below your facility	7 •	
	Depth to groundwater			meters
10.05 CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)	i. indicate (Y/N/NA) a	all routine relea	ases of the
	For each on-site activity listed listed substance to the environmy, N, and NA.)	i, indicate (Y/N/NA) a ment. (Refer to the i	all routine relea	ases of the a definition o
CBI	For each on-site activity listed listed substance to the environm	d, indicate (Y/N/NA) a ment. (Refer to the i Env Air	all routine releadinstructions for	ases of the a definition o
CBI	For each on-site activity listed listed substance to the environ Y, N, and NA.)  On-Site Activity	i, indicate (Y/N/NA) and ment. (Refer to the interpretation of the	all routine releadinstructions for vironmental Relea	ases of the a definition o ase Land
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing	i, indicate (Y/N/NA) and ment. (Refer to the interpretation of the	all routine releatinstructions for vironmental Releater	ases of the a definition o  ase  Land  NA
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing  Importing	i, indicate (Y/N/NA) and an ent. (Refer to the interpretation of t	all routine releatinstructions for vironmental Releater	ases of the a definition of ase  Land  NA
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	el, indicate (Y/N/NA) a ment. (Refer to the interpretation of the	all routine releatinstructions for vironmental Releater  Water  NA  NA	ases of the a definition of ase  Land  NA  NA  NA
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	el, indicate (Y/N/NA) a ment. (Refer to the interpretation of the	all routine releatinstructions for vironmental Releater  NA  NA  NA  NA  NA	ases of the a definition of ase  Land  NA  NA  NA
CBI	For each on-site activity listed listed substance to the environt Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage	i, indicate (Y/N/NA) a ment. (Refer to the interpretation of the i	all routine releatins for vironmental Releater  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	ases of the a definition of ase  Land  NA  NA  NA  NA
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	i, indicate (Y/N/NA) a ment. (Refer to the interpretation of the i	all routine releatins for vironmental Releater  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	ases of the a definition of ase  Land  NA  NA  NA  NA  NA  NA
CBI	For each on-site activity listed listed substance to the environmy, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	i, indicate (Y/N/NA) a ment. (Refer to the interpretation of the i	all routine releatins for vironmental Releater  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	ases of the a definition of ase  Land  NA  NA  NA  NA  NA  NA

10.06	Provide the following information for the listed s of precision for each item. (Refer to the instruction example.)	tions for furth	er explanation	and
<u>CBI</u>	an example.)			
[_]	Quantity discharged to the air	NIA	kg/yr ±	%
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u>	%
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NJA	kg/yr ±	%
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NIA	kg/yr <u>+</u>	%
		/		
	•			
	•		•	

10.09	substance in	terms of a Str	dentify each emission point source containing the listed eam ID Code as identified in your process block or					
CBI	residual tre	ow diagram(s), and provide a description of each point						
[_]	source. Do not include raw material and product storage vents, or fugitive emissio sources (e.g., equipment leaks). Photocopy this question and complete it separatel							
<del></del>	for each pro	ocess type.						
	Process type	: <u>N</u>	IA					
	Point Source		<i>'</i>					
	ID Code		Description of Emission Point Source					
			•					
			·					

 $\Xi$ 

this

<u>.</u> J			Stack		•			
. 1	Point Source ID Code	Stack	Inner Diameter (at outlet)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) <sup>2</sup>	Vent Type
	N IA	neight(m)				iicigiic(iii)	#2GCII(III)	-77
		Towards of the state of the sta	appeling a second					
					<u> </u>			
						***************************************		
			*****					
					<u></u>			
<del></del>								
	<sup>1</sup> Height o	f attached	or adjacent	building				
	<sup>2</sup> Width of	attached o	or adjacent	building				
	<sup>3</sup> Use the	following	codes to des	ignate vent	type:			
	H = Hori: V = Vert							

 $[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

).12 at	distribution for each Point Source	in particulate form, indicate the particle siz ID Code identified in question 10.09. e it separately for each emission point source				
31						
_]	Point source ID code					
	Size Range (microns)	Mass Fraction (% ± % precision)				
	< 1					
	≥ 1 to < 10					
	≥ 10 to < 30	<del></del>				
	≥ 30 to < 50					
	≥ 50 to < 100					
	≥ 100 to < 500					
	≥ 500					
		Total = 100%				
		·				
	•					
		,				

isted which are exp ng to the specified	osed to the l weight perce r each proces	isted sul	by provi	ling the r					
Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.									
type <u>N</u>	IA								
age of time per yea	r that the li	sted subs	stance is	exposed	to this p	rocess			
	Number	of Compor	nents in S	Service by	Weight l	am			
nt Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%			
als <sup>1</sup>		,							
d									
nical	•		<del> </del>						
e mechanical <sup>2</sup>	<del></del>	•							
sor seals <sup>1</sup>	<del></del>	***************************************							
		***************************************							
		•							
				•					
d		-							
e relief devices <sup>4</sup> or vapor only)									
connections									
d									
ded lines <sup>5</sup> , purge, vent)									
i									
ne number of pump a ssors	nd compressor	seals, 1	ather tha	an the num	nber of pu	umps or			
ued on next page									
	ed lines <sup>5</sup> purge, vent)  e number of pump a sors ed on next page	ed lines <sup>5</sup> purge, vent)  e number of pump and compressor sors  ed on next page	e number of pump and compressor seals, resors	purge, vent)  e number of pump and compressor seals, rather that sors	e number of pump and compressor seals, rather than the numbers of pump and compressor seals.	e number of pump and compressor seals, rather than the number of pusors			

10.13	(continued)								
	<sup>2</sup> If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	<sup>3</sup> Conditions existing in the valve during normal operation								
	<sup>4</sup> Report all pressure relie control devices	ef devices in service	e, including those	equipped with					
	<sup>5</sup> Lines closed during norma operations	al operation that wou	ald be used during	maintenance					
10.14 CBI	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.								
	a.	b.	c.	. d.					
	Number of Pressure Relief Devices	Percent Chemical in Vessel	Control Device	Estimated Control Efficiency <sup>2</sup>					
	ıl I A	•							
	- NA - A - A - A - A - A - A - A - A - A								
			•						
			Address of the second s						
	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)								
	<sup>2</sup> The EPA assigns a control with rupture discs under a efficiency of 98 percent conditions	normal operating cond	ditions. The EPA	assigns a control					
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Mark (X) this box if you a	ttach a continuation	sheet.						

CBI	procedures. Photocop	py this question a		Tr Separate	ily for each	process
	Process type	<i>,</i>		NIA		
· '	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device			Repairs Completed (days afte initiated)
	Pump seals					
	Packed					
	Mechanical					
	Double mechanical					
	Compressor seals					
	Flanges					
	Valves					
	Gas	•				
	Liquid					
	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas					-
	Liquid					
	Open-ended lines					
	Gas					
	Liquid				· · · · · · · · · · · · · · · · · · ·	
	1 Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	anic vapor analyze onitoring		evice:		

		10.16	6 Raw Material, Intermediate and Product Storage Emissions Complete the following table by providing the information on eliquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process or residual treatment block flow diagram(s).							n each ess block						
:x a		CBI.	or res	idual trea	atment block	flow diagram	ı(s).			Operating  Vessel Vessel Vessel Design Vent Control Basis  Height Volume Emission Flow Diameter Efficiency for (m) (1) Controls Rate (cm) (%) Estimate						
Mark (X) thi			Vessel Type		Composition of Stored Materials	Throughput (liters per year)	Rate		Vessel Inner Diameter (m)	Height	ing Vessel Volume	Vessel Emission	Flow_	Diameter	Efficiency	for
is box if you attach a			- <i>V</i> / 	<i></i>												
CONTINUETION SHEET.	continuation sheet		F CIF NCIF EFR P H U	= Fixed r = Contact = Noncont = Externa = Pressur = Horizor = Undergr cate weight r than flo	internal flact internal al floating revessel (intal cound at percent of pating roofs wrate the ending codes to	coating roof floating ro coof rdicate press f the listed	of Ture ration substance rol device	ng) e. Includ e was desi	MS1 MS2 LM1 LM2 LM3 VM1 VM1 VM1 le the tota	= Mex = Shx = Rin = Lic = Rin = Wex = Val = Wex = Wex = Wex = Wex = andle (	chanical pe-mounte quid-mounte ather si por mount m-mounte ather si tile or specify	I shoe, prited second ed, second inted resiled nield nield resiled seconda hield ganic cont	imary ary ary lient fi  ient fi  ry ent in	illed seal lled seal, parenthesi	primary	s:
			_	Sampling												

PART I	C	NON	POIIT	TNE	RELE	ΔCEC

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	NIA			Name of the last o
2				
3			-	
4				
5	and the state of t	· · · · · · · · · · · · · · · · · · ·		
6				

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature (°C)	Precipitation (Y/N)
1	NA				
2					
3					
4				AT VALUE OF THE STATE OF THE ST	
5					
6					

[ ] Mark (X) this box if you attach a continuation sheet.

APPENDIX I: List of	Continuation	Sheets
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Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number(1)	Continuation Sheet Page Numbers (2)
NIA	
• /	
•	*****
	***************************************
	•
	-





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TS-790

OFFICE OF TOXIC SUBSTANCES
U.S. GUUIRON MENTAL PROTECTION AGENCY,

RM 1-100

401 M STREET S.W.

WAShington, OC 20460
ATN: CAIR REPORTING

**ROBROY FIBERGLASS ENCLOSURES** 

